

## Product Data Sheet

### **ACETAMIDE NUTRIENT BROTH (DOUBLE PACK)**

**Product No.** GB-DCM-00006-1A

#### **Product Description**

Ability of utilizing acetamide by a wide variety of organisms was shown by Gilardi and others. They used a basal mineral medium for this purpose. However very few organisms are capable of deaminating acetamide by the acrylamidase activity. The ability to deaminate acetamide is more pronounced in the case of *Pseudomonas aeruginosa* and *Alcaligenes faecalis*.

#### **Product Specifications**

Ingredients	Gms / Ltr
<b>Part I</b>	
Magnesium sulphate	0.158
Sodium chloride	0.200
Sodium molybdate	0.005
Ferrous sulphate	0.0005
Dipotassium hydrogen phosphate	0.200
<b>Part II</b>	
Acetamide	2.000

#### **PRINCIPLE**

Acetamide Nutrient Broth contains various inorganic salts and acetamide as sources of carbon and nitrogen. Organisms growing in this medium metabolize acetamide, thereby liberating ammonia. This liberated ammonia can be detected by Nessler's reagent, which confirms *Pseudomonas aeruginosa*. Magnesium sulphate, ferrous sulphate and sodium molybdate are sources of ions that stimulate metabolism. Sodium chloride maintains osmotic equilibrium. Dipotassium hydrogen phosphate provides buffering to the medium

#### **QUALITY CONTROL SPECIFICATIONS**

Appearance of Powder: Cream to yellow homogeneous free flowing powder.  
 Appearance of prepared medium: Light amber coloured clear solution after cooling to room temperature. PH (at 25°C): 6.9±0.1



Microorganism	ATCC	Inoculum (CFU)	Growth	Deamination	Incubation Temperature	Incubation Period
Stenotrophomonas maltophilia	13637	50-100	Good luxuriant	Negative reaction ,no purplish red colour within 7 days	35-37°C	4-7 Days
Pseudomonas aeruginosa	27853	50-100	Good Luxuriant	Negative reaction ,no purplish red colour within 7 days	35-37°C	4-7 Days

### STORAGE

Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers between 25-30°C and protect from direct sunlight. Under optimal conditions, the medium has a shelf life of 4 years. When the container is opened for the first time, note the time and date on the label space provided on the container. After the desired amount of medium has been taken out replace the cap tightly to protect from hydration.

### Product Deterioration

Do not use if they show evidence of microbial contamination, discoloration, drying or any other signs of deterioration.

### DISPOSAL

After use, prepared plates, specimen/sample containers and other contaminated materials must be sterilized before discarding.

### INSTRUCTION FOR USE

- Dissolve 0.56 grams of Part I in 1000 ml purified / distilled water
- Add 2 grams of Part II. Heat if necessary, to dissolve the medium completely.
- Dispense in tubes or as desired.
- Sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes.

**This product is for research use only.**